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U.S. Application Serial No. 09/357,024, filed July 19, 1999, entitled GENE SEQUENCE VARIACNES IN GENES RELATED TO FOLATE METABOLISM HAVING UTILITY IN DETERMINING THE TREATMENT OF DISEASE, which claims the benefit of Stanton, U.S. Provisional Application 60/093,484, filed July 20, 1998, entitled GENE SEQUENCE VARIACNES IN GENES RELATED TO FOLATE METABOLISM HAVING UTILITY IN DETERMINING THE TREATMENT OF DISEASE, which are all hereby incorporated by reference in their entireties including drawings and tables.--

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Replace Table 10 beginning at page 171, with the following table:

Table 10

Variance Table

Hugo GID	OMIM ID VG	K Symbol Descrip	tion
Variance Start	Variance		
U73338 U73338	156570 GEN	N-69 Methion	ine
Synthase (SEQ ID NO:1)			
194	(-201) C>G	5 '	
284	(-111) C>T	5 '	
1136	742G>A	V248M	
1252	858C>T	Silent	
1334	940G>A	D314N	
1699	1305T>C	Silent	
3150	2756A>G	D919G	
3207	2813G>T	S938I	
3209	2815G>C	G939R	
5444	5050C>A	3'	2
5551	5157G>A	3 •	(
5573	5179C>T	3 '	
5659	5265T>C	3 '	
5678	5284T>C	3 '	
5874	5480C>T	3'	
5934	5540A>G	3'	
D78586 D78586	114010 GE	N-BR CAD PRO	TEIN (SEQ
ID NO:2)			
3434	3408C>T	Silent	
4313	4287T>C	Silent	
4799	4773A>G	Silent	
5255	5229C>T	Silent	
5455	5429G>A	R1810Q	

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5507	5481T>C		
5810	5784C>T		
6128	6102C>T		
6626	6600C>T		
6686	6660C>T		
U09178 U09178			
Dihydropyrimidine Dehyd	rogenase (SEQ II	D NO:3)	
166	85T>C	C29R	
577	496A>G	M166V	
638	557A>G	Y186C	
1708	1627A>G	I543V	
3432	3351T>C	3'	
3682	3601C>T	3'	
3730	3649G>A	3'	
3925	3844A>G	3 '	
3937	3856T>C	3 '	
U19720 U19720		EN-I1 Folat	ce
Transporter (SLC19A1) (S			
175	80G>A	R27H	
341	246C>G		
791	696C>T		
1067	972G>A		
1337	1242C>A		
1997	1902T>C	3'	
2100	2005^2006insG	3'	
2582	2487T>G	3'	
2617	2522C>T	3'	
	2557T>C	3 '	
2652		_	roduced
		Homo sapiens	
folate carrier (RFC1) g			1D NO.3)
431	431A>G	Intron	
441	441A>G		
498	498C>T	Intron Intron	
579	579G>C		
599	599G>C	Intron	idylate
X02308 X02308		EN-KL Thym:	Idylace
synthetase (SEQ ID NO:6) 961T>C	3'	
1066		3 '	
1136	1031A>G	3'	
1497	1392T>A		~ - -
	88350 GEN-LU	C Thymidyl	ale
	ID NO:7)	T n +	
276	276C>T	Intron	
321	321T>C	Intron	
452	452G>A	Intron	

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	1 T T A 1 0	T . I
457	457^insC	
491	491C>A	
533	533T>C	Intron
624	624A>C	Intron
639	639A>G	Intron
655	655T>C	
D00596 D00596		JUD Homo sapiens
gene for thymidylate sym	nthase, exons 1, 2	, 3, 4, 5, 6, 7,
complete cds (SEQ ID NO	:8)	
701	701A>C	Intron
716	716A>G	Intron
732	732T>C	Intron
1293	1293A>G	Intron
1322	1322C>G	Intron
1379	1379T>C	Intron
1590	1590C>T	Intron
1688	1688C>G	Intron
2401	2401A>G	Intron
2429	2429G>A	Intron
2488	2488C>T	Intron
2594	2594G>T	Intron
2618	2618G>A	Intron
3083	3083G>A	Intron
3125	3125G>A	Intron
3212	3212C>T	Intron
3619	3619T>A	Intron
3635	3635G>A	Intron
4256	4256G>A	Intron
4898	4898A>G	Intron
5006	5006C>T	Intron
5062	5062G>A	Intron
5167	5167G>A	Intron
11069	11069A>G	Intron
11238	11238C>T	Intron
11293	11293T>G	Intron
11422	11422T>C	Intron
11686	11686C>T	Intron
12598	12598T>C	Intron
13171	13171T>C	Intron
13298	13298G>A	Intron
13645	13645T>C	Intron
13751	13751C>A	Intron
13782	13782T>C	Intron
13806	13806T>C	Intron
13813	13813T>C	Intron

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14479	14479A>G	Intron
14546	14546^insT	Intron
14585	14585C>T	Intron
14729	14729G>A	Intron
14787	14787C>T	Intron
14795	14795G>A	Intron
15041	15041T>C	Intron
15343	15343G>A	Intron
15449	15449G>A	Intron
15502	15502G>A	Intron
15545	15545C>T	Intron
15589	15589A>G	Intron
	15769C>T	3'
15769	15769C21 15839A>G	3 '
15839		3 '
16148	16148G>A	3'
16198	16198T>G	
16202	16202G>T	Intron
X59618 X59618	180390 GEN-	-M3 Ribonucleotide
reductase M2 polypeptide		
128	(-67) G>A	5 '
189	(-6) T>G	5 !
524	330C>G	Silent
1399	1205T>A	3'
1464	1270G>A	3'
1636	1442C>T	3'
1738	1544C>T	3'
2259	2065T>C	3'
S72487 S72487	131222 GEN-3	3LD Thymidine
phosphorylase, partial (SEQ ID NO:10)	
183	19G>A	D7N
483	319C>T	3'
601	437G>C	3'
1299	1135G>A	3'
M58602 M58602 13	1222 GEN-LUB	Thymidine
phosphorylase, promoter	and genomic (SEQ	ID NO:11)
124	124C>T	3'
439	439G>A	3'
1044	1044^insCT	3'
1331	1331G>A	3 '
1977	1977G>A	Intron
2149	2149G>A	Intron
2467	2467A>G	Intron
2634	2634C>G	Intron
2975	2975G>A	Intron
3116	3116G>T	Intron
0110		

Applicant: Vincent P. Stan s Docket No.: 11926-015002 Serial No.: Filed : HEREWITH Page : 6 3255A>C Intron 3255 3344 3344T>C Intron 4051C>A Intron 4051 4782G>A Intron 4782 5022 5022T>C Intron 5266G>A 5266 Intron 5285 5285C>G Intron 5438 5438T>A Intron 5482C>T 5482 Intron 5629 5629G>A Intron 5648 5648C>T Intron 5731 5731G>A Intron 136510 GEN-4C3 M98045 Homo sapiens folylpolyglutamate synthetase mRNA, complete cds (SEQ ID NO:12) 802 732C>T Silent 1677G>T 3' 1747 3 ' 1900 1830T>C U24253 136510 GEN-LUE Human folylpolyglutamate synthetase (FPGS) gene, exons 5-11, and partial cds (SEQ ID NO:13) 1424C>A 1424 Intron 1649 1649G>A Intron 2554 2554A>G Intron 136510 U24252 U24252 GEN-LUF Folylpolyglutamate synthetase, promoter and exons 1-4 (SEQ ID NO:14) 263 263A>G Intron 266 266G>T Intron 527 527C>G Intron 5 ' 1037 1037A>G 1139 1139G>A Intron 1217 1217C>T Intron 1647C>T Intron 1647 1955 1955G>A Intron 2017 2017G>A Intron 2037G>A Intron 2037

U09806 U09806 236250 GEN-4FZ Human methylenetetrahydrofolate reductase mRNA, partial cds (SEQ ID NO:15)

2189A>G

2282C>T

2309A>G

Intron

Intron

Intron

2189

2282

2309

120 120T>C Silent 464 464T>G M155R 519 519C>T Silent